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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

01/09/2009

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

BRIGGS, NATHANAEL R

ART UNIT PAPER NUMBER

2871 DATE MAILED: 01/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/508,859	12/21/2004	Yoshiyuki Oguchi	Q83325	8700

TITLE OF INVENTION: SPACER PARTICLE DISPERSION HAVING SURFACE HYDROPHILIC FUNCTIONAL GROUP AND VINYL-BASED MONOMER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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SUITE 800	VANIA AVENUE				Cert	ificate	of Mailing or Transr	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
WASHINGTON	I, DC 20037							(Depositor's name)
				_				(Signature)
	_							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/508,859 ITLE OF INVENTION IONOMER	12/21/2004 N: SPACER PARTICLI	E DISPERSION HAVIN	Yoshiyuki Oguch IG SURFACE HYDF		ILIC FUNCTION	AL G	Q83325 ROUP AND VINYL	8700 BASED
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	04/09/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
BRIGGS, NA	THANAEL R	2871	349-155000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a sregistered attorney 2 registered patent	rinting on the patent front page, list names of up to 3 registered patent attorneys ts OR, alternatively, name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is no name will be printed.				
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Tasubstitute for filing (B) RESIDENCE: (C)	he pa g an a	tent. If an assigne ssignment. and STATE OR CO	TNUC	RY)	ocument has been filed for up entity
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	tus (from status indicated s SMALL ENTITY statu	,	☐ b. Applicant is no	long	er claiming SMAL	L ENT	TITY status. See 37 CF	FR 1.27(g)(2).
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10/508,859	12/21/2004	Yoshiyuki Oguchi	Q83325	8700	
23373 75	23373 7590 01/09/2009		EXAMINER		
SUGHRUE MION, PLLC			BRIGGS, NA	THANAEL R	
2100 PENNSYLVANIA AVENUE, N.W.			ART UNIT	PAPER NUMBER	
SUITE 800 WASHINGTON, DC 20037			2871 DATE MAILED: 01/09/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	T				
	Application No.	Applicant(s)			
Al-CPAH	10/508,859	OGUCHI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	NATHANAEL R. BRIGGS	2871			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS . This application is subje	application. If not included tion will be mailed in due course. THIS			
1. This communication is responsive to <u>amendments filed 26</u>	September 2008.				
2. ☑ The allowed claim(s) is/are <u>11 and 13</u> .					
 3. Acknowledgment is made of a claim for foreign priority unally all blue blue blue blue blue blue blue bl	e been received. e been received in Application No)			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Review (P	TO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	÷				
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the	ne Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 					
Attachment(s)	5 Notice of Inform	al Patant Application			
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. ☐ Notice of Information 6. ☐ Interview Summ				
 Information Disclosure Statements (PTO/SB/08), 	6. ☐ Interview Summ Paper No./Mail 7. ☑ Examiner's Ame	Date			
Paper No./Mail Date <u>12/16/2008</u>					
 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☐ Examiner's Statement of Reasons for Allowance 9. ☐ Other 					
/N. R. B./					
Examiner, Art Unit 2871					

Application/Control Number: 10/508,859 Page 2

Art Unit: 2871

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Affidavit, filed 26 September 2008, with respect to claims 11 and 13 have been fully considered and are persuasive, particularly in that the specified claimed ranges of claim 11 cause unexpectedly superior results in the dispersion of spacer particles in comparison to the prior art. Therefore, the rejection of 29 May 2008 has been withdrawn.

Election/Restrictions

2. This application is in condition for allowance except for the presence of claims 1-4, 6-10, and 14-19 directed to an invention and method non-elected without traverse.

Accordingly, claims 1-4, 6-10, and 14-19 have been cancelled.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

BEGIN EXAMINER'S AMENDMENT

- 4. In the Specification:
- 5. The title is changed to: "SPACER PARTICLE DISPERSION HAVING SURFACE HYDROPHILIC FUNCTIONAL GROUP AND VINYL-BASED MONOMER".

END EXAMINER'S AMENDMENT

Application/Control Number: 10/508,859 Page 3

Art Unit: 2871

Allowable Subject Matter

6. Claims 11 and 13 are allowed.

- 7. The following is an examiner's statement of reasons for allowance: Claim 11 recites a dispersion of spacer particles which comprises spacer particles in which a vinyl-based thermoplastic resin, having a vinyl-based monomer having a hydrophilic functional group in an amount of 30 to 80% by weight and a vinyl-based monomer having an alkyl group having 3 to 22 carbon atoms in an amount of 20 to 60% by weight, is combined with the surface of an inorganic fine particle and/or an organic fine particle.
- 8. *Morii* (2008/0036944) discloses a dispersion of spacer particles which comprises spacer particles in which a vinyl-based thermoplastic resin, having a vinyl-based monomer having a hydrophilic functional group in an amount of 30 to 80% by weight and a vinyl-based monomer having an alkyl group having 3 to 22 carbon atoms in an amount of 20 to 60% by weight, is combined with the surface of an inorganic fine particle and/or an organic fine particle. However, *Morii* does not disclose wherein the hydrophilic functional group is in an amount of 30 to 80% by weight and a vinyl-based monomer having an alkyl group having 3 to 22 carbon atoms is in an amount of 20 to 60% by weight, nor would it have been obvious to do so.
- 9. Okabe et al. (US 6,280,799) discloses a dispersion of spacer particles wherein the dispersion contains a medium comprising water. However, Okabe does not disclose wherein the dispersion of spacer particles includes a hydrophilic functional group in an amount of 30 to 80% by weight or a vinyl-based monomer having an alkyl group having

Art Unit: 2871

3 to 22 carbon atoms in an amount of 20 to 60% by weight, nor would it have been obvious to do so.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHANAEL R. BRIGGS whose telephone number is (571)272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/508,859 Page 5

Art Unit: 2871

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathanael Briggs 12/29/2008

/David Nelms/ Supervisory Patent Examiner, Art Unit 2871